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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/758,644 01/15/2004		Peter Wernet	07588/026003	5815		
21559 75	90 11/13/2006	EXAMINER				
CLARK & ELBING LLP 101 FEDERAL STREET			NGUYEN,	NGUYEN, QUANG		
BOSTON, MA			ART UNIT	PAPER NUMBER		
• •			1633			
	•		DATE MAILED: 11/13/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	lo.	Applicant(s)					
Office Action Summary		10/758,644		WERNET, PETER					
		Examiner		Art Unit					
			Quang Nguye	n, Ph.D.	1633				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)[🗆	Responsive to communication(s) file	d on <i>18 Au</i>	iaust 2006.						
2a)□	•		action is non-	final.					
•	Since this application is in condition	•			secution as to the	e merits is			
-,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
·	4)⊠ Claim(s) <u>1-3 and 5-9</u> is/are pending in the application.								
_	4a) Of the above claim(s) <u>3 and 5-9</u> is/are withdrawn from consideration.								
•	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
•	Claim(s) are subject to restrict	tion and/or	election reau	irement.					
•	on Papers								
	•								
	The specification is objected to by the								
10)	The drawing(s) filed on is/are:								
	Applicant may not request that any object								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	` '			□ l=t===io	(DTO 442)				
1) 🔼 Notic 2) 🗌 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948)	4)	Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5/22/05</u> .			5) 6)	Notice of Informal P Other:					

DETAILED ACTION

Applicant's amendment filed on 8/18/06 was entered.

Claims 1-3 and 5-9 are pending in the present application.

Claims 3 and 5-9 were withdrawn by Applicants.

Accordingly, amended claims 1-2 are examined on the merits herein.

Response to Amendment

The lack of Written Description rejection under 35 U.S.C. 112, first paragraph, was withdrawn in light of Applicant's amendment.

The Declaration under 37 CFR 1.132 filed 5/2/06 is sufficient to overcome the rejection of claims 1-2 based upon insufficiency of disclosure under 35 U.S.C. 112, first paragraph.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. *This is a new ground of rejection.*

Claim 1 recites the limitation "said patient" in line 3 of the claim. There is insufficient antecedent basis for this limitation in the claim. This is because prior to this limitation, there is no recitation of any patient. For the purpose of a compact

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prosecution, the examiner interprets the term "said patient" broadly to be any patient for the prior art applied below.

Claim 2 is vague and indefinite in that the metes and bounds of the term "derived from" are unclear. It is unclear the nature and number of steps required to obtain a "derivative" of USSCs. The term implies a number of different steps that may or may not result in a change in the functional characteristics of USSCs from the source that it is "derived from". It would be remedial to amend the claim language to use the term "obtained from", which implies a more direct method of obtaining USSCs.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Naughton et al (US 5,842,477) as evidenced by Ha et al. (US 2005/0118714 A1). *This* is a new ground of rejection.

The claims are directed to a method for treating a cardiac muscle disease, said method comprising administering to a patient human unrestricted somatic stem cells (USSCs), wherein said USSCs are negative for the CD14 and CD45 antigens and positive for the CD13 and CD29 antigens and lack expression of hyaluronan synthase.

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In examining these claims, Examiner does not give any patentable weight to the preamble because the body of these method claims <u>contains a single step of administering to a patient human unrestricted somatic stem cells</u>, and without any nexus to the preamble of the claims (e.g., a particular patient, and the resulting outcome).

Naughton et al teaches a method comprising implanting into a patient a biocompatible, non-living three-dimensional scaffold and at least a source of chondrocyte progenitor cells that includes human mesenchymal stem cells obtained from umbilical cord or placenta tissue or umbilical cord blood (see at least the abstract; col. 10, lines 60-67); col. 6, lines 36-42). The human mesenchymal stem cells obtained at least from umbilical cord blood as taught by Naughton et al. must be positive for the CD13 and CD29 antigens, while negative for the CD14 and CD45 antigens and lack expression of hyaluronan synthase as evidenced by the teachings of Ha et al. (paragraph 0027). Ha et al. teaches clearly that human umbilical cord-blood derived mesenchymal stem/progenitor cells have immunophenotypic characteristics in that they are positive for CD29, CD49e, CD44, CD54, CD13, CD90, SH2, SH3 and SH4 antigens and negative for CD45, CD34, CD14, HLA-DR, CD31, CD51/61, CD49d, CD 106 and CD64 antigens.

Accordingly, the teachings of Naughton et al anticipate the instant claims as written.

Conclusion

No claims are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang Nguyen, Ph.D., whose telephone number is (571) 272-0776.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's SPE, Dave Nguyen, may be reached at (571) 272-0731.

To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1633; Central Fax No. (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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PATENT EXAMINER